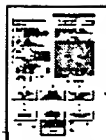




Patent Plaques



P3176478A2: NEW DIKETOPIPERAZINE DERIVATIVE AND IMMUNOSUPPRESSIVE AGENT CONTAINING THE SAME AS ACTIVE INGREDIENT

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IPC Class: C07D 241/38; A61K 31/495; C07D 403/06;

Abstract:

NEW MATERIAL: A compound expressed by formula I[R is residue R of amino acid expressed by the formula $R.CH(NH_2)COOH$; R, together with formula II, may be form formula III]. EXAMPLE:

Cyclopentane-3-spiro-6-methyl-piperazine-2,5-dione expressed by formula IV.

USE: An immunosuppressive agent. PREPARATION: Cycloleucine expressed by formula V is made to react with a mixture solution of benzyl alcohol, p-toluenesulfonic acid and toluene while being heated and refluxed and then crystallized in an ether to provide a cycloleucine benzyl ester p-toluenesulfonate expressed by formula VI, which is subsequently subjected to a reaction with an amino acid expressed by formula VII in which the amino group is protected with tert-butyloxycarbonyl group in N-methylmorpholine, etc., to afford a compound expressed by formula VIII. The resultant compound expressed by formula VIII is then dissolved in hydrochloric acid-dioxane and the reaction solution is evaporated to dryness. The obtained solid is subsequently dissolved in a solvent and N-methylmorpholine is then added thereto. The reaction mixture is refluxed while being heated.

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Other Abstract Info: DERABS C91-269855 DERC91-269855

Foreign References: (No patents reference this one)

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